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8791 7590 10/17/2007 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY			EXAMINER	
			BAYOU, YONAS A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/764,682	CANDELORE, BRANT L.				
Office Action Summary	Examiner	Art Unit				
	Yonas Bayou	2134				
The MAILING DATE of this communication a	appears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion is period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.1.136(a). In no event, however, may a liod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	-					
1) Responsive to communication(s) filed on 04	4 September 2007.					
2a)⊠ This action is FINAL . 2b)☐ T	This action is FINAL . 2b) ☐ This action is non-final.					
,	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-10,12,13 and 15-38</u> is/are pendir	ng in the application.					
4a) Of the above claim(s) is/are without	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	S)⊠ Claim(s) <u>1-10,12,13 and 15-38</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on <u>1/23/2004</u> is/are: a).	⊠ accepted or b)☐ objecte	ed to by the Examiner.				
Applicant may not request that any objection to t	the drawing(s) be held in abeya	ınce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the core	·					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forea) All b) Some * c) None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docume	ents have been received.	·				
2. Certified copies of the priority docume	ents have been received in .	Application No				
Copies of the certified copies of the p	·	n received in this National Stage				
application from the International Bur						
* See the attached detailed Office action for a	list of the certified copies no	t received.				
Attachesenta						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of 6) Other: _	Informal Patent Application				

- 1. This office action is in response to applicant's response filed on 09/04/2007.
- 2. Claims 1-10, 12-13 and 15-38 are pending.
- 3. Claims 11 and 14 are cancelled.
- 4. Claims 1, 4, 9, 12, 15, 18, 21, 23, 27 and 29 are amended.
- 5. Applicant's arguments have been fully considered but they are not persuasive.

Claim Objections

1. Claim 10 is objected to because of the following informalities:

Examiner found that cancelled claim 10 should be pending; furthermore claim 11 should be cancelled in applicant's original amendment.

Appropriate correction is required.

Response to Arguments

1. Applicant, on page 11, lines 1-20, of the remarks, argues "in the mating key gateway of claims 1 and 4, a non-volatile storage unit coupled to the bus, the non-volatile storage unit to store a mating key lookup table to identify either the server controlled by the supplier of the digital device or the trusted third party based on the information received from the sender."

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Examiner respectfully disagrees and asserts that Wasilewski discloses that a mating key generator being a message that comprises an identifier of the supplier or the server controlled by the supplier of the digital device or the trusted third party based on the information received from the sender [column 10, lines 52-55; column 13, line 64 - column 14, line 8 and column 18, lines 1-15; the conditional access message have a common format, namely a header which contains an identifier for the conditional access system which corresponding to an identifier of the supplier and service provider/supplier sends set-top box which extracts the EMM and ECM necessary for decrypting the transmitted program from the supplier corresponding to an identifier of the supplier].

2. Examiner, however, in light of the above submission maintains the previous rejections while considering the amendments to the claims as follows:

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1- 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Wasilewski US Patent No. 6,157,719.

Referring to claims 1, 3, 12 and 13, Wasilewski teaches a mating key gateway adapted to retrieve at least one mating key used to encrypt a program key that is used to scramble digital content prior to transmission to a digital device, comprising:

a bus [column 14, lines 14-16 a bus is inherently a communication scheme (wires, fiber optics, fiber coax)];

a processor coupled to the bus [column 21, lines 15-19 and fig. 12];

an interface coupled to the bus, the interface being adapted to receive information from (1) a sender of the digital content and (2) either a server controlled by a supplier of the digital device or a trusted third party [column 21, lines 15-21; fig. 12; interface 1203 (equivalent to an interface) connected to a bus permits passage of data between the components of DHCT 333 and DHCTSE 627 which is inherently the interface coupled to the bus, being adapted to receive information from a sender/a headend];and

a non-volatile storage unit coupled to the bus, the non-volatile storage unit to store a mating key lookup table to identify either the server controlled by the supplier of the digital device or the trusted third party based on the information received from the sender, from which the at least one mating key is supplied [column 21, lines 9-22; fig.13; NVA storage 1303 stores administrative storage (keys) which contains DHCT

keys 1325 each DHCT 333 has public-private key pair toencrypt EMMs sent to DHCT 333 and to decrypt the messages respectively, i.e. to secure the information received from the sender/the headend which is inherently store a mating key to identify the server controlled by the supplier of the digital device].

Referring to claim 2, Wasilewski teaches the mating key gateway, wherein the interface to receive the information from the sender being one of a cable provider, a satellite-based provider, a terrestrial-based provider, an Internet service provider and a conditional access (CA) provider operating with one of the cable provider, the satellitebased provider, the terrestrial-based provider and the Internet service provider [column 10, lines 52-55; column 13, line 64 - column 14, line 8; DHCT 333 (interface to DHCT) receive the information from the provider, i.e., conditional access (CA) provider, cable provider, internet service and etc].

Referring to claim 4, Wasilewski teaches the mating key gateway, wherein the information received by the interface from the sender comprises a mating key generator being a message that comprises an identifier of the supplier, the mating key lookup table stored by the non-volatile storage unit comprises (i) a first group of entries forming a range of mating key generators for digital devices supplied by each supplier of a plurality of suppliers including the supplier, and (ii) a second group of entries corresponding to the first group of entries, each entry of the second group of entries including at least one mating key uniquely corresponding to and formed by at least a

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portion of one of the mating key generators [column 7, lines 5-8 and fig. 2B; DHCT/digital device (equivalent to mating key generator) comprises key/mating key corresponding to one of the mating key generator stored in memory which is supplied by each supplier/manufacturer; column 18, lines 1-15; the sender/headend comprises a mating key generator (equivalent to a type of message/key generator, i.e. ECM, EMM, GBEM and etc.) being a message that contains an identifier of the conditional access system which inherently the supplier; column 33, lines 54-60; column 43, lines 55-65; EAID (entitlement agent ID) inherently is the information to communicate with a server].

Referring to claims 5 and 25, Wasilewski teaches the mating key gateway inherently the security content delivery system, wherein the mating key generator received by the interface further comprises an identifier of a provider of a system that enables transmission of both the digital content and the mating key generator to the digital device [column 17, line 59-column 18, line 15; column 24, lines 21-26; column 29, lines 44-47; an identifier of CAA (conditional access authority) which is a part of the trusted third party is inherently an identifier of a provider and do security checking to the program (content) over transmission so that it enables execution].

Referring to claims 6, 15 and 26, Wasilewski teaches the mating key gateway, wherein the mating key generator received by the interface further comprises (i) an identifier that identifies a conditional access (CA) system provider over which the digital content and the mating key generator are transmitted, and (ii) a mating key sequence

number [column 19, lines 55-65; fig. 10 and column 24, lines 21-34; an identifier for the CAA or EA is inherently an identifier of a provider helps to secure and transmit data; and the mating key generator (equivalent to CA message 805 in fig. 11) includes a sequence of CA message which is inherently a mating key sequence number].

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Referring to claims 7, 16 and 17, Wasilewski teaches the mating key gateway, wherein the mating key lookup table stored by the non-volatile storage unit comprises (i) a first group of entries forming a range of serial numbers for digital devices supplied by each supplier of a plurality of suppliers including the supplier, and (ii) a second group of entries corresponding to the first group of entries, each entry of the second group of entries including information to establish communications with a server controlled by one of the plurality of suppliers [column 7, lines 5-8 and fig. 2B; DHCT (equivalent to digital device) has serial number stored in memory supplied by supplier/manufacturer); column 33, lines 54-60; column 43, lines 55-65; EAID (entitlement agent ID) inherently is the information to communicate with a server].

Referring to claims 8, 10 and 19, Wasilewski teaches the mating key gateway, wherein the mating key lookup table stored by the non-volatile storage unit comprises (i) a first group of entries forming a range of serial numbers for digital devices supplied by each supplier of a plurality of suppliers including the supplier, and (ii) a second group of entries corresponding to the first group of entries, each entry of the second group of entries including an address to establish communications with a trusted third party

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authorized by one of the plurality of suppliers [column 7, lines 5-8; fig. 2B; column 16, lines 47-49; column 22, lines 23-35; column 33, lines 22-60; column 47, lines 4-33 and fig. 28; an address to the EA/DHCT 333'S private key matches with DHCT 333's true key which is accomplished by certifying the DHCT certificate 2806 with the factory programmer certificate authority (FPCA)/(equivalent to control suite 607 in fig.6) which inherently a trusted third party signature to establish a secured communications over a network 521 (fig. 6)].

Referring to claims 9 and 18, Wasilewski teaches the mating key gateway, wherein the mating key lookup table stored by the non-volatile storage unit comprises (i) a first group of entries forming a range of mating key generators for digital devices supplied by each supplier of a plurality of suppliers including the supplier and the at least one mating key being formed using at least a portion of one of the mating key generators, and (ii) a second group of entries corresponding to the first group of entries, each entry of the second group of entries including information to establish communications with a server controlled by one of the plurality of suppliers [column 7, lines 5-8 and fig. 2B; DHCT/digital device (equivalent to mating key generator) comprises key/mating key corresponding to one of the mating key generator stored in memory which is supplied by each supplier/manufacturer; column 33, lines 54-60; column 43, lines 55-65; EAID (entitlement agent ID) inherently is the information to communicate with a server].

Referring to claim 20, Wasilewski teaches the mating key gateway being adapted

to additionally store mating keys for selected digital devices [column 4, lines 41-63 and fig. 1; set-top box 113 (equivalent to mating key gateway) additionally store mating keys/information].

Referring to claim 21, Wasilewski teaches a secure content delivery system comprising:

a trusted third party to store a plurality of mating keys associated with digital devices, each mating key being used to encrypt a key that is used to scramble digital content [column 22, lines 23-35; fig. 6; a control suite 607 (equivalent to a trusted third party) stores keys/mating keys which inherently used to encrypt digital content];

a mating key gateway in communications with the trusted third party, the mating key gateway to provide information received from a head end to the trusted third party for retrieval of a requested mating key that is computed using the information received from the headend [column 15, lines 7-23; column 16, lines 47-55 and fig. 6; the communications between the trusted third party/control suite 607 and the rest of conditional access system 601 (includes a key generator/a mating key gateway) is to make ECM and EMM which is inherently for retrieval of a requested mating key].

Referring to claim 22, Wasilewski teaches a secure content delivery system, wherein the key used to scramble the digital content is a program key [column 5, lines 26-28].

Referring to claims 23 and 24, Wasilewski teaches a secure content delivery

system, wherein the information provided to the trusted third party comprises a mating key generator being a message that comprises an identifier of a supplier of one of the digital devices and the mating key generator undergoing a hash operation to produce the requested mating key [column 7, line 65 – column 8, line 12 and column 18, lines 4-15; the information provided to ECM/EMM (part of the trusted third party) which inherently contains a key generator and ID of a supplier].

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 27, 28, 30 and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No. 6,157,719 in view of Turner et al. US Patent No. 6,707,696.

Referring to claim 27, Wasilewski teaches a step of receiving a mating key generator; and outputting a mating key based on the mating key generator being a message [column 7, lines 5-8 and fig. 2B]. Wasilewski fails to teach a one-time

programmable value being identical to a key stored in a digital device of a set-top box targeted to receive information encrypted with either the mating key or a derivative of the mating key. However, Turner teaches a one-time programmable value being identical to a key stored in a digital device of a set-top box targeted to receive information encrypted with either the mating key or a derivative of the mating key;

[column 1, lines 30-37; fig. 3; TV Decoder Box (equivalent to set-top box) has a SRAM 306 (equivalent to a mating key generator) and one-time programmable memory, both holds encryption keys that are compared by the processor 305 which is inherently outputting a mating key based on the mating key generator and an one-time programmable value being identical to a key stored in a set-top box targeted to receive information encrypted with either the mating key or a derivative of the mating key].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Turner's hacker-proof one-time programmable memory with Wasilewski's Conditional access system because it offers the advantage of having a mating key and an one-time programmable value to receive information encrypted with either the mating key or a derivative of the mating key.

Referring to claim 28, Wasilewski teaches the step of outputting the mating key [column 1, lines 30-37; fig. 3 and column 14, lines 14-16]. Wasilewski fails to teach receiving a serial number being used to locate the one-time programmable value. However, Turner teaches receiving a serial number being used to locate the one-time

programmable value **[column 2, lines 1-10; fig. 7**; an address decoder communicates with the power up write controller and the read controller, for providing an address to the one-time programmable memory array which is inherently the method receives a serial number being used to locate the one-time programmable value].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Turner's hacker-proof one-time programmable memory with Wasilewski's Conditional access system because it offers the advantage of receiving a serial number being used to locate the one-time programmable value prior to outputting the mating key.

Referring to claim 30, Wasilewski teaches a secure content delivery

System/method, wherein the mating key generator includes at least one of (i) a first identifier to identify a manufacturer of the digital device [column 18, lines 4-15], (ii) a service provider identifier [column 17, line 59-column 18, line 15; column 24, lines 21-26, (iii) a conditional access provider identifier, and (iv) a mating key sequence number [column 19, lines 55-65; fig. 10 and column 24, lines 21-34].

Referring to claim 32, Wasilewski fails to teach a conditional access (CA) control system in communication with a mating key server, the CA control system comprising: means for receiving a mating key from the mating key server, the mating key being computed based on a mating key generator and a one-time programmable value; and

means for producing a plurality of derivatives keys based on the mating key, each derivative key being used to encrypt a key that is configured to descramble digital content targeted for a digital device of a set-top box. However, Turner teaches a conditional access (CA) control system in communication with a mating key server, the CA control system comprising: means for receiving a mating key from the mating key server, the mating key being computed based on a mating key generator and a one-time programmable value; and means for producing a plurality of derivatives keys based on the mating key, each derivative key being used to encrypt a key that is configured to descramble digital content targeted for a digital device of a set-top box [column 3, lines 25-39; column 3, lines 47-50; fig. 3 and fig. 7; Power-Up Write Controller (equivalent to conditional access (CA) control system) communicates inherently with the service provider/server and keys from TV Decoder Box 301].

Referring to claim 33, Wasilewski teaches a secure content delivery system, wherein the key used to scramble the digital content is a program key [column 5, lines 26-28].

Referring to claim 34, Wasilewski teaches the CA control system comprising: transmitting the encrypted program key and the scrambled digital content to the digital device of the set-top box [column 6, lines 18-23].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Turner's hacker-proof one-time programmable memory

with Wasilewski's Conditional access system because it offers the advantage of receiving a mating key from the mating key server, the mating key being computed based on a mating key generator and a one-time programmable value; and means for producing a plurality of derivatives keys based on the mating key, each derivative key being used to encrypt a key that is configured to descramble digital content targeted for a digital device of a set-top box.

5. Claims 29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No. 6,157,719 in view of Turner as applied to claim 27 above, and further in view of Smeets et al. US Patent No. 7,058,806. The teaching of Wasilewski in view of Turner has been discussed above.

Referring to Claims 29 and 31, Wasilewski teaches the step of outputting the mating key [column 1, lines 30-37; fig. 3 and column 14, lines 14-16]. Wasilewski in view of Turner fails to teach computing the mating key by performing a computation on the mating key generator and the one-time programmable value to produce a mating key. However, Smeets teaches computing the mating key by performing a computation on the mating key generator and the one-time programmable value to produce a mating key [column 8, lines 18-31; fig. 4; fig. 3; column 9, lines 12-20 and fig. 6; computing between system 600 (equivalent to one-time programmable value) and external device

670 (equivalent to the mating key generator) to produce authentication key (equivalent to a mating key)].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Smeets's method and apparatus for secure leveled access control with Conditional access system as taught by Wasilewski in view of Turner because it offers the advantage of computing the mating key by performing a computation on the mating key generator and the one-time programmable value to produce a mating key.

6. Claims 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No. 6,157,719 in view of Smeets et al. US Patent No. 7,058,806.

Referring to Claim 35, Wasilewski teaches a method receiving a request for a key over a communication bus **[column 7, lines 5-8 and fig. 2B]**. Wasilewski fails to teaches a method recovering different versions of the key depending on which of a plurality of providers is requesting the key; and providing the different versions of the key to the plurality of providers adapted to use the key as either a mating key to encrypt digital content delivered to a targeted digital device or as a precursor key to derive the mating key to encrypt the digital content delivered to the targeted digital device. However, Smeets teaches a method recovering different versions of the key depending on which of a plurality of providers is requesting the key; and providing the

different versions of the key to the plurality of providers adapted to use the key as either a mating key to encrypt digital content delivered to a targeted digital device or as a precursor key to derive the mating key to encrypt the digital content delivered to the targeted digital device [column 5, lines 14-28; fig. 2].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Smeets's method and apparatus for secure leveled access control with Wasilewski's Conditional access system because it offers the advantage of receiving a request for a key over a communication bus; recovering different versions of the key depending on which of a plurality of providers is requesting the key; and providing the different versions of the key to the plurality of providers adapted to use the key as either a mating key to encrypt digital content delivered to a targeted digital device or as a precursor key to derive the mating key to encrypt the digital content delivered to the targeted digital device.

Referring to Claim 36, Wasilewski fails to teach the method recovering of the key includes accessing a database to retrieve the key being a pre-calculated value. However, Smeets teaches recovering of the key includes accessing a database to retrieve the key being a pre-calculated value [column 4, lines 29-38; fig. 1; which inherently retrieve the key being a pre-calculated value].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Smeets's method and apparatus for secure leveled access control with Wasilewski's Conditional access system because it offers the advantage of

recovering of the key includes accessing a database to retrieve the key being a precalculated value.

Referring to Claim 37, Wasilewski fails to teach the method recovering the key includes calculating the key substantially in real time based on a unique key associated with the targeted digital device, an identical copy of the unique key being permanently stored within the targeted digital device. However, Smeets teaches the method recovering the key includes calculating the key substantially in real time based on a unique key associated with the targeted digital device, an identical copy of the unique key being permanently stored within the targeted digital device [column 4, lines 4-14; fig. 1].

Referring to claim 38, Wasilewski teaches the mating key gateway inherently the security content delivery system, wherein the mating key generator received by the interface further comprises an identifier of a provider of a system that enables transmission of both the digital content and the mating key generator to the digital device [column 17, line 59-column 18, line 15; column 24, lines 21-26; column 29, lines 44-47; an identifier of CAA (conditional access authority) which is a part of the trusted third party is inherently an identifier of a provider and do security checking to the program (content) over transmission so that it enables execution].

At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to use Smeets's method and apparatus for secure leveled access

control with Wasilewski's Conditional access system because it offers the advantage of recovering the key includes calculating the key substantially in real time based on a unique key associated with the targeted digital device, an identical copy of the unique key being permanently stored within the targeted digital device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yonas Bayou whose telephone number is 571-272-7610. The examiner can normally be reached on m-f,7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571-272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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